



TENNESSEE DEPARTMENT OF EDUCATION

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Culinary Arts IV

Primary Career Cluster:	Hospitality & Tourism
Consultant:	Deborah Thompson, (615) 532-2840, Deborah.Thompson@tn.gov
Course Code(s):	6167
Prerequisite(s):	<i>Culinary Arts III</i> (5981)
Credit:	1
Grade Level:	12
Graduation Requirements:	This course satisfies one of three credits required for an elective focus when taken in conjunction with other Hospitality & Tourism courses.
Programs of Study and Sequence:	This is the fourth and final course in the <i>Culinary Arts</i> program of study.
Aligned Student Organization(s):	Family, Career and Community Leaders of America (FCCLA): http://www.tennesseefccla.org/ SkillsUSA: http://tnskillsusa.com/ Brandon Hudson, (615) 532-2804, Brandon.Hudson@tn.gov
Coordinating Work-Based Learning:	Teachers are encouraged to use embedded WBL activities such as informational interviewing, job shadowing, and career mentoring. For information, visit http://tn.gov/education/cte/work_based_learning.shtml .
Available Student Industry Certifications:	ServSafe
Dual Credit or Dual Enrollment Opportunities:	There are no known dual credit/dual enrollment opportunities for this course. If interested in developing, reach out to a local postsecondary institution to establish an articulation agreement.
Teacher Endorsement(s):	(050 and 060), (050 and 453), (051 and 060), (051 and 453), (154 and 155), (450 and 060), (450 and 453), 562, 563, 564, 566, 730
Required Teacher Certifications/Training:	ServSafe, National Registry of Food Safety Professionals, or CCE Culinary Chef Educator Industry Certification
Teacher Resources:	http://www.tn.gov/education/cte/HospitalityTourism.shtml

Course Description

Culinary Arts IV is the capstone course in the *Culinary Arts* program of study intended to prepare students for careers such as personal chef, caterer, executive chef, and food and beverage manager. Course content covers the components of commercial kitchen safety and sanitation, food presentation, bakeshop preparation skills, sustainability practices, professionalism, and business opportunities. Upon completion of this course, proficient students will have applied the full range of knowledge and skills

acquired in this program of study toward the planning and catering of an event approved by the instructor. Artifacts will be created for inclusion in a portfolio, which will continue throughout the full sequence of courses. Standards in this course are aligned with Tennessee Common Core State Standards for English Language Arts & Literacy in Technical Subjects and Tennessee State Standards in Mathematics.* **In addition to implementing the following standards, the course should include a suggested 30 hours spent in a commercial kitchen laboratory.**

Program of Study Application

This is the final course in the *Culinary Arts* program of study. For more information on the benefits and requirements of implementing this program in full, please visit the Hospitality & Tourism website at: <http://www.tn.gov/education/cte/HospitalityTourism.shtml>.

Course Standards

Safety & Sanitation

- 1) Analyze the concepts and principles of the Hazard Analysis and Critical Control Points (HACCP) program approach to food safety from the Food and Drug Administration (FDA) and United States Department of Agriculture (USDA) in relation to meats and seafood. Demonstrate the concepts and principles in the foodservice setting to ensure food safety when working with meats and seafood. (TN Reading 2, 3)
- 2) Research the state laws and rules that govern foodservice businesses, including catering operations, from the Tennessee Department of Health (TDH). Demonstrate adherence to all applicable laws in the course of completing the capstone project. (TN Reading 1, 9)
- 3) Compile, practice, and critique safety and sanitation procedures related to handling, preparing, storing, and serving food from industry-approved technical manuals and government published fact sheets. Identify, review, and demonstrate common laboratory safety procedures, including but not limited to prevention and control procedures and personal hygiene expectations. Incorporate safety procedures and complete safety test with 100 percent accuracy; include exam in the student portfolio. (TN Reading 3)

Food Preparation

For each of the following food types, prepare a “cheat sheet” to include as part of a food preparation index in the student portfolio. The index will address forms, preparation methods, classification and grading processes, receiving and storage practices, and a sample standardized recipe and photograph of the prepared dish. For each entry, draw on relevant culinary research and guidelines from regulatory agencies and organizations to support information included in the index.

Fish & Shellfish

- 4) Identify the major types of shellfish and finfish (saltwater and freshwater) used in commercial foodservice, citing research from government resources such as the United States Department of Agriculture (USDA) Food List or the United States Food and Drug Administration (FDA) approved list. Summarize guidelines from sources such as the United States Department of

Agriculture (USDA) Food Fact sheets for assessing the quality and freshness of finfish and shellfish. (TN Reading 1, 5, 9)

- 5) Analyze the National Oceanic and Atmospheric Administration (NOAA) inspection and grading procedures for finfish and shellfish. From the research, summarize how the products are graded, classified, and inspected. Examine the United States Food and Drug Administration's (FDA) list of approved acceptable market names and seek additional research to clarify unfamiliar products. (TN Reading 2, 4)
- 6) Create a diagram/graphic of the different fabrication forms that chefs may work with in a commercial kitchen. Summarize the various moist-heat and dry-heat cooking methods from a collection of seafood recipes. Research the principles of finfish and shellfish cookery using culinary journals and magazines. Select the best cooking method for certain finfish and shellfish, and be able to explain to a potential customer, client, or supervisor how the cooking method achieves the desired flavor profile, texture, and presentation. (TN Reading 1, 7; TN Writing 2, 4, 6)
- 7) Create an entrée menu listing for a finfish or shellfish dish to be served in a restaurant. The entrée listing should reflect the use of local products and connections to a certain region. Craft an accompanying explanatory text discussing the use of the local products and connection to the region. (TN Reading 2, 4; TN Writing 2, 4, 9)

Bakeshop Preparation

Cakes

- 8) Categorize the different types of cakes by identifying their mixing methods (i.e., creaming and sponge), the functions of their ingredients, and the methods for preparing the pan for baking. Compile a collection of cake recipes into an index. Select one recipe to demonstrate the preparation method for a group, using proper culinary terminology to narrate and explain the procedure. (TN Reading 3, 5, 7; TN Writing 9)
- 9) Summarize from recipes and culinary textbooks the steps to follow when assembling a multilayer cake. Identify and use the kitchen tools needed to successfully practice the skill. Using resources ranging from baking blogs to industry magazines, investigate current trends in finishing and decorating cakes. Craft an essay presenting claims and counterclaims concerning the best method for assembling a multilayer cake. (TN Reading 1, 3, 7; TN Writing 1, 4)

Custards, Foams & Buttercreams

- 10) Compare and contrast the different types of custards (stirred and baked) and foams (whipped cream, meringue, mousse, and Bavarian crème) commonly used in commercial foodservice. Discuss how the preparation methods affect the appearance, volume, and weight of foams. Compile a collection of recipes illustrating the diversity of custards and foams in the foodservice industry. (TN Reading 6, 9; TN Writing 6, 8)
- 11) Research the two types of buttercream (American and French) and the multistep process for preparing each. In a taste test/observation, compare the taste, structure, and composition of

each. Create and continually revise the recipes for different types of buttercream. (TN Reading 1, 3, 8; TN Writing 4, 5, 7)

Desserts Sauces & Frozen Desserts

- 12) Citing evidence from a variety of recipes and/or culinary textbooks, analyze the different types of dessert sauces (i.e., crème anglaise, chocolate, caramel, and fruit sauces) and the role of the ingredients used in each. Evaluate a range of dessert dishes that may benefit from the addition of various sauces. Demonstrate ability to prepare sauces from recipes, making modifications when needed. Evaluate the sauces for proper appearance, flavor, and texture. (TN Reading 1, 3, 5; TN Writing 5)
- 13) Using print or digital resources, discuss the qualities of frozen desserts, citing examples of each. Evaluate a frozen dessert recipe, analyzing the choice of ingredients. Outline any proposed modifications, including substitute ingredients. (TN Reading 1, 4, 9; TN Writing 5)

Sustainability in the Kitchen

- 14) Research the principles of green design, responsible design, and sustainable design in the commercial kitchen setting. Examine how a foodservice establishment has successfully implemented one of these principles, and discuss the impact it has had on the business. (TN Reading 2, 4; TN Writing 2, 4, 6)
- 15) Research the importance of sustainable practices in the foodservice industry. Create a plan to reduce foodservice waste and to minimize the impact on the environment. The plan should focus especially on reducing water and conserving energy. (TN Reading 2, 9)

Professionalism, Ethics, and 21st Century Skills

- 16) Search for the resumes of professional chefs and foodservice professionals retrieved from the websites of institutions, organizations, or professional networks. Discuss what is typically included in the resumes of foodservice professionals, compare and contrast several examples, and create a personal resume modeled after elements identified in the search. (TN Reading 1, 4, 5, 6; TN Writing 4)
- 17) Participate in a mock interview. Prior to the interview, prepare a paper that includes the following: tips on dress and grooming, most commonly asked interview questions, appropriate conduct during an interview, and recommended follow-up procedures. Upon completion of the interview, write a thank you letter to the interviewer in a hand-written or email format. (TN Reading 2; TN Writing 4)

Business Opportunities

- 18) Compare and contrast types of business ownership models, including at minimum the following: sole proprietorships, partnerships, small businesses, cooperatives, limited liability corporations, and corporations. In a narrative referencing foodservice examples, explain the organizational structure of each model and describe its advantages and disadvantages to both owner and customer. (TN Reading 4, 5, 9; TN Writing 2, 4, 7, 9)

- 19) Investigate methods for reducing costs in the commercial kitchen, including but not limited to investments in energy-saving technologies, bulk purchasing strategies, and buying local. Using supporting graphic illustrations and calculations, develop a proposal for a mock client or manager, outlining how the business can save money while also adhering to its mission, without compromising the quality of food or service. (TN Writing 4; TN Math N-Q)

Capstone Project

- 20) Evaluate which foodservice strategies are appropriate for certain events (i.e., banquets, receptions, lunches, etc.). Compare and contrast successful strategies used by event planning and catering companies, drawing on profiles of these companies and other evidence from industry magazines, blogs, news articles, or textbooks. As part of the class capstone project, investigate potential clients for a catering event, and collaboratively determine which client would be appropriate, given classroom constraints. Potential clients could include, for example, a local non-profit or community organization, a parent-teacher association, student government association, sports team, and more. (TN Reading 2, 9)

- 21) Collaboratively, develop a *professionalism* evaluation rubric with performance indicators for each of the following professional attributes and use it to evaluate course assignments and personal work:

- a. Attendance/punctuality
- b. Professional dress and behavior
- c. Positive attitude
- d. Collaboration
- e. Honesty
- f. Respect
- g. Responsibility
- h. Appropriate technology use

Share the rubric with the client for evaluation purposes as part of the capstone project.

- 22) Research how event planning and catering companies submit proposals to potential clients, and compare and contrast sample proposals in a variety of formats. Determine the central components necessary for any foodservice-related proposal (e.g., a projected budget). Develop an original event proposal, as approved by the instructor. The proposal should include at minimum the following:

- a. Introduction
- b. Theme of event
- c. Timeline of planning
- d. Appropriate tablewares, lines, and decorations
- e. Menu
- f. Budget/cost analysis
- g. Professionalism evaluation rubric

(TN Reading 1; TN Writing 4, 7, 9; TN Math N-Q)

- 23) Present the event proposal to the client, asking for feedback and recommendations. Analyze the feedback and recommendations to justify any changes to the event proposal, citing evidence from the initial presentation. Submit the final event proposal for approval, documenting all changes made. (TN Reading 5, 9; TN Writing 4, 5)

- 24) Using the final approved event proposal, execute the timeline to demonstrate teamwork, problem-solving, and decision-making skills. Work collaboratively to ensure that the needs and expectations of the client are met for the event. In a personal journal entry, document the capstone experience, drawing on the connections between the project and course content. (TN Writing 4)
- 25) Compile and interpret the evaluation rubric and feedback from the client, reading the results closely to allow for critical analysis and reflection. Upon conclusion of the capstone project, craft a reflection paper discussing the experience and its impact on career growth. Use technology to create a class presentation showcasing highlights, challenges, and lessons learned from the capstone. (TN Reading 2; TN Writing 2, 6, 7)

Portfolio

- 26) Update the portfolio started in *Culinary Arts I* to demonstrate mastery of skills and knowledge acquired throughout the full *Culinary Arts* program of study and applied in the final course. The portfolio should reflect thoughtful assessment and evaluation of the progression of work, exhibiting personal and professional growth in the culinary field. (TN Writing 4, 5)

The following artifacts will reside in the student's portfolio:

- Safety and Sanitation assignments
- Fish and shellfish artifacts
- Recipes
- Photos of food product
- Bakeshop artifacts
- Sustainability assignment
- Professionalism artifacts
- Capstone project artifacts

Standards Alignment Notes

*References to other standards include:

- TN Reading: [Tennessee State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects](#); Reading Standards for Literacy in Science and Technical Subjects 6-12; Grades 11-12 Students (page 62).
 - Note: While not directly aligned to one specific standard, students that are engaging in activities outlined above should be able to also demonstrate fluency in Standard 10 at the conclusion of the course.
- TN Writing: [Tennessee State Standards for English Language Arts & Literacy in History/Social Studies, Science, and Technical Subjects](#); Writing Standards for Literacy in History/Social Studies, Science, and Technical Subjects 6-12; Grades 11-12 Students (pages 64-66).
 - Note: While not directly aligned to one specific standard, students that are engaging in activities outlined above should be able to also demonstrate fluency in Standards 3 and 10 at the conclusion of the course.
- TN Math: [Tennessee State Standards for Mathematics](#); Math Standards for High School: Number and Quantity.

- Note: The standards in this course are not meant to teach mathematical concepts. However, the concepts referenced above may provide teachers with opportunities to collaborate on lesson planning. Students who are engaging in activities listed above should be able to demonstrate quantitative reasoning as applied to specific technical concepts. In addition, students will have the opportunity to practice the habits of mind as described in the eight Standards for Mathematical Practice.
- P21: Partnership for 21st Century Skills [Framework for 21st Century Learning](#)
 - Note: While not all standards are specifically aligned, teachers will find the framework helpful for setting expectations for student behavior in their classroom and practicing specific career readiness skills.